

# COLOUR PASSION SYSTEM





Colour Lab,  
Polistuc technology



**POLISTUC**  
colour  
passion

# COLOUR PASSION SYSTEM

## indice

Colour Passion Tintometrical Systems	Pag. <b>04</b>
Spectrophotometers	Pag. <b>08</b>
Tintometers	Pag. <b>10</b>
HP tintometrical system - Colour Passion <i>High Performance Metal Line</i>	Pag. <b>11</b>
HQ tintometrical system - Colour Passion <i>High Quality Wood Line for polyurethane lacquered</i>	Pag. <b>12</b>
HP tintometrical system - Colour Passion <i>High Performance Wood Line for polyurethane lacquered</i>	Pag. <b>14</b>
HP tintometrical system - Colour Passion <i>High Performance Wood Line for acrylic lacquered</i>	Pag. <b>15</b>
Formularies	Pag. <b>16</b>
Completion of a perfect workstation	Pag. <b>17</b>

# Colour Passion tintometrical system



Polistuc Colour Passion tintometrical system is conceived and structured to allow to final users or stores to reproduce a wide range of high quality pigmented topcoats.

Thanks to each component of the system, it is possible to reproduce accurately, quickly, easily and consistently colours included in commonly used colourcharts, like RAL, NCS, Pantone, Sikkens, etc. In this way it is possible to ensure

high quality performances to the coatings, just if they came directly from production department of Polistuc, leading company in wood coatings market. All Polistuc coatings and pigmented pastes are formulated and produced in our facilities, in Italy, this means that final quality and constancy of characteristics are checked daily, in order to provide to the final user high quality coatings or customised ones.

This system can be applied successfully to:

## Metal coatings

- RUST PREVENTERS
- PRIMERS AND SEALERS
- PIGMENTED SELF SEALERS
- MONOCOMPONENT ENAMELS (nitro, alkyd, chlorine rubber)
- BICOMPONENT ENAMELS (polyurethane, acrylic, epoxy)

# Wood coatings

- MATT PIGMENTED POLYURETHANE TOPCOATS
- HIGH GLOSS PIGMENTED POLYURETHANE TOPCOATS
- MATT ACRYLIC TOPCOATS
- HIGH GLOSS ACRYLIC TOPCOATS
- WATER BASED MATT PIGMENTED TOPCOATS FOR EXTERIORS
- SOLVENT BASED MATT PIGMENTED TOPCOATS FOR EXTERIORS
- WATER BASED MONOCOMPONENT MATT PIGMENTED TOPCOATS FOR INTERIORS
- WATER BASED BICOMPONENT MATT PIGMENTED TOPCOATS FOR INTERIORS
- WATER BASED MATT PIGMENTED TOPCOATS FOR GLASS

In addition, customised colours can be formulated, that can be used in special painting systems, like dual cure matt and high gloss UV topcoats, matt and high gloss acrylic ones and customised metal coatings.

The correct choice of the Colour Passion system suitable for each production need has to consider:

- DESIRED FINAL QUALITY AND REPRODUCIBILITY
- PRODUCTIVITY
- DAILY NUMBER OF COLOURS TO BE FORMULATED
- ARTICLES QUANTITY TO BE PRODUCED
- CUSTOMISED PRODUCTS REQUEST

So, it is possible to define the following macro cases:

1

When the demand of customised products and the number of pigmented coatings to be prepared is small, it is suggested to opt for manual system, composed by paper formularies and wall stirring mixer.

This system allows to reach a good colour fidelity considering the common colour charts.

2

When the demand of customised products is small but the number of pigmented coatings to be prepared is notable, it is suggested to opt for the automatic tintometer, that allows to prepare quickly a lacquer, thanks to the possibility of dosing of atmost three pigmented pastes simultaneously. In this way the working environment is better orderly and healthy, and the saving in terms of production waste becomes high.

The tintometer is able to dispense correctly the mixture of needed pigmented pastes into the proper pre-weighed converter.

3

When the demand of customised products and the number of pigmented coatings is high, it is suggested to consider a combined system, composed by a spectrophotometer and an automatic tintometer. In this way it will be possible to formulate, correct and reproduce a wide variety of different colours, which are included in any kind of colourchart or in special ones. In addition, it is possible to control and store any kind of production batch, in order to constantly keep under control the production process of these lacquers.

# Spectrophotometers

## Datacolor 110 spectrophotometer

Economic tool bench (spectrophotometer with fixed area to be defined when ordering)  
Normally the standard SAV area is 9 mm.

### Software quality control and formulation/correction

- **Datacolor Match Pigment Plus**

(commonly called as mother software)

The software is composed by:

Section 1 - Quality Control

Section 2 - Formulation and correction

Section 3 - Creation of a Colourfile

- **Datacolor Match Pigment Plus WS**

(commonly called as daughter software)

The software is composed by:

Section 1 - Quality Control

Section 2 - Formulation and correction

### DATACOLOR 110



Colour Passion system, therefore, is composed by two parts, a software and an hardware, which integrate perfectly to provide the highest quality and reproducibility of pigmented topcoats, both in matt and high gloss versions.



## XRite Ci61 Portable Spectrophotometer

Lightweight, compact, portable and easy to use. It is possible to measure throughly all kind of coated surfaces, saving time and reducing waste in the paint matching process. Designed with a large LCD display and an easy menu with touch controls.

### Software quality control and formulation/correction

#### ● Paint Color Master 2

Main features of the software are:

- Formulation and correction
- Shine identification with 60° value
- Up to 4,000 samples that can be stored for a fast and easy retrieval when needed
- Automatic dispensers interface (CPS, TECMEC, INKMACHER)
- Quality control
- Possibility to connection with your PC using the USB cable included

XRite Ci61



Polistuc will provide the needed colour files to reproduce the colours included in the most common colour charts, RAL, RAL Design, NCS e Munsell.

## Wall mixing machine FLEXIMIX 100

It's a compact and versatile wall mixer, able to stir each single pigmented paste of the tintometrical system.

It's a perfect solution when the number of lacquers prepared daily is limited, so it's therefore preferable to prepare them manually. Sturdy and resistant, it's easy to assemble and clean, thanks to the material used (zinc-aluminium alloy). It allows to stir at the same time up to 35 pigmented pastes, in 3,5 kg packs. It's possible to stir even 1 kg pack. The footprint depends by the desired configuration.

Polistuc will provide the needed colour files to reproduce the colours included in the most common colour charts, RAL, RAL Design, NCS and Munsell.

FLEXIMIX 100



# Tintometers

## COROB D300 automatic tintometer

Compact and inexpensive to purchase and maintain, it is an ideal solution for Do-It-Yourself stores or similar environments where low to medium paint volumes are prepared. Easy to use, it can dispense quickly the needed pigmented pastes to save time and decrease the waste of products. It's provided with 16 canisters, 8 containing 4 litres and 8 containing 6 litres, or 24 canisters, 12 containing 4 litres and 12 containing 6 litres. The maximum height of a can is 45 cm. The footprint needed depends by the configuration chosen, it goes from 74X94X136 cm (sixteen canisters), to 102X94X136 cm (twenty-four canisters). The flow rate is 0,2 - 0,5 l/min.

## Software for configuration and production of pigmented products

### ● CorobShop 4.16 and CorobTech 5.9

Main features of these softwares are:

- Manual or automatic calibration
- Manual update of pigmented pastes volumes
- Quick and easy set up basing to the tintometrical system chosen
- Editing and saving of any kind of formula
- Costs control
- Loading and dispensing of any formula saved

### Computers & Accessories

Each spectrophotometer and tintometer must be equipped with a PC or Laptop. The computer must be dedicated exclusively to the use of the proper instrument.

The operating system Windows7 or Windows8 installed in every PC or laptop must be in English. The Keyboard / Mouse type must be English.

### COROB D300

AUTOMATIC TINTOMETER



# Tintometrical systems



## Colour Passion HP - High Performance Metal Line

Colour Passion HP system allows to formulate, correct and reproduce metal coatings of various nature, be them alkydic, epoxypolyamidic, acrylic or polyurethanic.

This system is based on nineteen pigmented pastes, three special pastes, a neutral one and forty different clear converters.

**FBU00** Neutral paste

**FBU01** Oxide yellow paste

**FBU02** Orange paste

**FBU03** Oxide red paste

**FBU04** Violet oxide red paste

**FBU05** Blue paste

**FBU06** Green paste

**FBU07** Violet paste

**FBU08** White paste

**FBU09** Deep black paste

**FBU10** Cold yellow paste

**FBU11** Lemon yellow paste

**FBU12** Gold yellow paste

**FBU13** Magenta red paste

**FBU14** Scarlet red paste

**FBU15** Bright red paste

**FBU16** Black paste

**FBU44** Fine textured paste

**FBU48** Coarse texturized paste

**FBU60** Alluminium fine grain paste

**FBU65** Alluminium medium grain paste

**FBU70** Alluminium coarse grain paste

**FBU90** Universal matting paste

**F011SE** Acrylic semi-gloss high solid converter for enamels

**F011SP** Acrylic gloss high solid converter for enamels

**F211PC** Alkyd converter for primers

**F230PC** Epoxypolyamidic converter for primers and sealers

**F302CC** 2k acrylic converter for primers and sealers

**F302PC** 2k acrylic converter for primers

**F303DD** 2k acrylic semi-matt converter for self sealers

**F303FF** 2k acrylic converter for self sealers

**F303TX** 2k thixotropic acrylic converter for self sealers

**F311PC** Alkyd converter for primers and rust preventers

**F315EX** Alkyd converter with zinc phosphate for self sealers

**F315SP** Alkyd converter for self sealers

**F330PC** Epoxypolyamidic converter for self sealers

**F360SE** Vinyl converter for primer

**F400SP** 2k acrylic high gloss converter for enamels

**F402BC** 2k acrylic orange peel effect converter for enamels

**F403DD** 2k acrylic high gloss converter for self sealers

**F403FF** 2k acrylic high gloss converter for self sealers

**F410OP** Alkyd converter for enamels

**F410OP** Alkyd matt converter for enamels

**F410SE** Alkyd semi-gloss converter for enamels

**F410SP** Alkyd high gloss converter for enamels

**F420OP** Polyurethane matt converter for enamels

**F420SE** 2k polyurethane semi-gloss converter for enamels

**F420SP** 2k polyurethane gloss converter for enamels

**F430BC** 2k epoxypolyamidic orange peel effect converter for enamels

**F430SE** 2k epoxypolyamidic semi-gloss converter for enamels

**F430SP** 2k epoxypolyamidic high gloss converter for enamels

**F436OP** Nitro converter for enamels

**F436SP** Nitro converter for enamels

**F444OP** Alkyd chlorinated rubber matt converter for enamels

**F444SP** Alkyd chlorinated rubber high gloss converter for enamels

**F503FF** 2k acrylic matt converter for self sealers

**F710PC** Acrylic converter for self sealers

**F720PC** Acrylic converter for plastics materials

**F750PC** 2k acrylic converter for plastics materials

**F805PC** Synthetic converter for primers/anti-rusts

**F844SE** Alkyd chlorinated rubber semi-gloss converter for enamels

**F844OP** Alkyd chlorinated rubber matt converter for enamels

**F844SP** Alkyd chlorinated rubber high gloss converter for enamels

Products obtained using this system are very easy to prepare, as it operates on predosed cans and equipped with tie lids; operators have only to open the can of the chosen converter, add the FBU pastes needed to match the required colour following the formulations included in the CD or in the software of the mixing machine, and then shake well.

It is possible to reproduce all RAL and NCS colours included Colorsystem chart.

In addition to the quickness of preparing the product, COLOUR PASSION HP system allows to realize exceptional coatings, suited to meet the most different demands of metal sector; effectively, it is possible to prepare products for industry, heavy carpentry, light carpentry, agricultural machinery, etc.

# Tintometrical systems

## Colour Passion HQ - High Quality Wood Line for polyurethane lacquered

Colour Passion HQ system allows to formulate, correct and reproduce high quality lacquers of different nature, be them solvent or water based.

Basing to production and market needs, therefore, it possible to use the following systems:

### Solvent based matt and high gloss pigmented products

Fifteen pigmented pastes, two white bases and two clear ones

**PCP10** White paste

**PCP23** Lemon yellow paste

**PCP24** Sun yellow paste

**PCP22** Oxide yellow paste

**PCP32** Orange paste

**PCP31** Oxide red paste

**PCP40** Alfa blue paste

**PCP41** Beta blue paste

**PCP50** Black paste

**PCP30** Bright red paste

**PCP60** Green paste

**PCP33** Dark red paste

**PCP146** Bordeaux paste

**PCP80** Violet paste

**PCP73** Magenta red paste

**OP610** Matt white base

**LP710** High gloss white base

**OT990** Matt clear base

**LT008** High gloss clear base

The pigmented topcoat achieved with the system mentioned above is characterised by fast drying time, excellent coverage, smoothness and surface hardness.

The final gloss level of a matt pigmented PU product depends by the gloss level of the converter used and the percentage of pigmented pastes added. This series of products can be applied successfully by spray (manual or automatic) and curtain coater.

The full gloss pigmented topcoat achieved with this system is characterised by excellent surface hardness (it can be buffed very easily), excellent coverage and levelling and good reactivity. This series of products can be applied successfully by spray (manual or automatic) and curtain coater.



# Tintometrical systems



## Water based matt and high gloss pigmented products for interiors, water based matt pigmented products for exteriors and pigmented products specific for glass

Sixteen pigmented pastes, five white bases and seven clear ones

**WPP10** White paste

**WPP23** Cold lemon yellow paste

**WPP22** Oxide yellow paste

**WPP24** Warm lemon yellow paste

**WPP30** Orange paste

**WPP31** Oxide red paste

**WPP25** Warm sun yellow paste

**WPP40** Ftalo blue paste

**WPP50** Deep black paste

**WPP50C** Black paste

**WPP32** Bright red paste

**WPP60** Green paste

**WPP70** Bordeaux paste

**WPP80** Violet paste

**WPP71** Magenta red paste

**WIOP610G** Matt monocomponent white base for interior

**WIOP001** Clear monocomponent matt base for interior

**WPOP001G** Clear bicomponent matt base for interior

**WLT001** Clear high gloss base for interior

**WOEP310** White matt base for exterior

**WBE02** Clear matt base for exterior

**WOEP510** White competitive matt base for exterior

**WBE03** Clear competitive matt base for exterior

**WOG002** Clear base specific for glass





# Tintometrical systems

## Colour Passion HP - High Performance Wood Line for polyurethane lacquered

Colour Passion HP allows to formulate, correct and reproduce matt and high gloss lacquers, using an universal series of pastes:

### Solvent based matt and high gloss pigmented products

Sixteen pigmented pastes, four white bases and two clear ones

**FBU01** Oxide yellow paste

**FBU02** Orange paste

**FBU03** Oxide red paste

**FBU04** Violet oxide red paste

**FBU05** Blue paste

**FBU06** Green paste

**FBU07** Violet paste

**FBU08** White paste

**FBU09** Deep black paste

**FBU10** Cold yellow paste

**FBU11** Lemon yellow paste

**FBU12** Gold yellow paste

**FBU13** Magenta red paste

**FBU14** Scarlet red paste

**FBU15** Bright red paste

**FBU16** Black paste

**OP610** Matt white base

**LP710** High gloss white base

**OT991G20** Matt clear base

**LT072** High gloss clear base

**OP601** White competitive matt base

**LB030** White competitive high gloss base



## Colour Passion HP - High Performance Wood Line for acrylic lacquered

Colour Passion HP allows to formulate, correct and reproduce matt and high gloss lacquers, using an universal series of pastes:

### Solvent based matt and high gloss pigmented products

Sixteen pigmented pastes, four white bases and two clear ones

**FBU01** Oxide yellow paste

**FBU02** Orange paste

**FBU03** Oxide red paste

**FBU04** Violet oxide red paste

**FBU05** Blue paste

**FBU06** Green paste

**FBU07** Violet paste

**FBU08** White paste

**FBU09** Deep black paste

**FBU10** Cold yellow paste

**FBU11** Lemon yellow paste

**FBU12** Gold yellow paste

**FBU13** Magenta red paste

**FBU14** Scarlet red paste

**FBU15** Bright red paste

**FBU16** Black paste

**OPBA730** Matt white base

**LPBA730** High gloss white base

**OTA791G20** Matt clear base

**LTA700** High gloss clear base



# Tintometrical systems

## Formularies

Polistuc will provide the following formularies, in excel format, for each listed tintometrical system:

- **Colorsystem colour chart**, for Metal Line, high gloss and matt versions
- **Ral colour chart**, for Wood and Metal Lines, high gloss and matt versions
- **NCS colour chart**, for Wood and Metal Lines, high gloss and matt versions
- **Industrial vehicle chart**, for Metal Line, high gloss and matt versions

Polistuc Technical Support will be pleased to provide more detailed information referred to Colour Passion tintometrical system and the technical support necessary for the selection and installation of the system best suited to its production process, as well as the technical training of its dedicated staff.





# Completion of a perfect workstation

Along with equipments above listed and described, to setup a perfect and professional workstation there are additional complementary equipments for weighing, properly mixing and applying wood and metal coatings, in order to formulate, produce, apply and correct easily and quickly an high gloss or matt pigmented product.

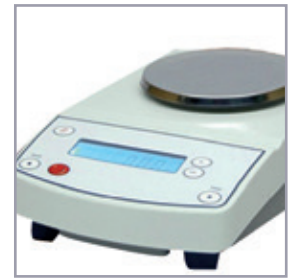
## Weighing systems

The must have for a professional laborathory or point of sale is an high precision scale, for the optimal formulation of every sample requested.

### ● High precision scale

It's an high precision scale with load cell, characterised by a 0,01 g sensitivity, that is indispensable in a laboratory or colour centre, to produce small samples of stains or pigmented products for wood or metal. Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device.

It works also with batteries. 5000 g maximum recommended load.



### ● Semi-Industrial scale

It's an high precision electronic semi-industrial and laboratory scale with load cell, characterised by a 0,1 g sensitivity, that is indispensable in a laboratory or colour centre, to produce samples of stains or pigmented products for wood or metal up to 30 kg.

Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device.

It works also with batteries. 30 kg maximum recommended load.



### ● Industrial scale

It's an high precision electronic industrial scale with load cell, characterised by a 0,1 g sensitivity, that is indispensable in a laboratory or colour centre, to produce samples of stains or pigmented products for wood or metal, up to 50 kg.

Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device. It works also with batteries. 50 kg maximum recommended load.



# Completion of a perfect workstation

## Mixing systems

The perfect and adequate mixing of pigmented pastes in a proper converter allows to deliver to the customer a perfectly matching pigmented product, in terms of colorimetric yield and correspondence to the desired required colour.

The systems presented are highly professional and allow to achieve high quality standards.

### ● Gyroscopic mixer Clevermix 550

It is a self-closing and automatic gyroscopic stirrer, characterised by high mixing efficiency and ease of maintenance, it presents a removable load plate and sturdy closure of the loading area.

It's equipped with an intuitive control panel. Speed and stirring time functions are programmable.

It can shake packs of different weights, starting from one kilogram tins to 25 kg cans.

The minimum height of the tin must be 8 cm, the maximum one of a can must be 47 cm.

The footprint is equal to 80X79X101 cm.



Gyroscopic mixer Clevermix 550

### ● Laboratory stirrer with stainless steel mixing tool

It's a laboratory stirrer suitable for highly efficient mixing, homogenising and dissolving of fluid and viscous products.

It's suitable for mixing of pigmented pastes into the proper converter, it can dissolve or make uniform a solid-liquid system. It allows to work on any kind of coating product, in order to achieve quickly what is desired.

The engine, and thus the mixing tool, scroll up on a chromed column, allowing to work on different packaging: changing properly the mixing tool, it's possible to stir from one kilogram up to 30 kg samples.



Laboratory stirrer

## Spray systems

### ● Dry Spray Booth

It's a cabin for spray applications, efficient and little bulky, which could be positioned in the laboratory or suitable facilities into a colour centre.

It's recommended when the paint quality has to be verified before delivery, including the colour checking.

This booth is equipped with a suction system for the extraction of fumes. The overspray is retained by suitable filters built up in the frontal area, which can be cleaned and/or replaced easily and quickly.



Dry spray booth

## Control systems

### ● Glossmeter

A very useful tool in a laboratory or colour centre is the glossmeter, an instrument which can effectively and precisely determine the gloss level of any kind of topcoat. It's easy to use, portable and lightweight.

It allows to measure the gloss level with angles of 20°, 60° and 85°, depending on the desired accuracy of the measurement.



Glossmeter

### ● Colour evaluation chamber

The perception and visual evaluation of a colour is subjective and varies with the illuminating light.

When a spectrophotometer is not available or when a colour has to be evaluated visually, it's possible to work using a bench colour evaluation chamber, characterised by a limited footprint.

This instrument follows the current regulations of the industry, it allows to evaluate, compare and analyse one or more colours (methamerism checking). The chamber can be equipped with a 45° plate and presents five different light sources, which can simulate, for example, the daylight (D65) and neon lamp (F11). The footprint is equal to 71X40,5X57 cm.



Colour evaluation chamber





Polistuc Technical Support will be pleased to provide more detailed information concerning the laboratory equipment described, in order to help the customer to properly choose the most suitable equipment for its needs.





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